

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009981

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> C23C14/34

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> C23C14/34

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CA(STN), [(La/els or Ce/els or Pr/els or Nd/els or Eu/els or Gd/els or Dy/els) and (Ca/els or Mg/els or Ba/els or Sr/els) and Mn/els and O/els and

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-260139 A (YKK Corp.), 03 October, 1997 (03.10.97), Claims; Par. No. [0014] (Family: none)	1-3
Y	JP 9-74015 A (Masuo OKADA), 18 March, 1997 (18.03.97), Claims; Par. Nos. [0032] to [0037] (Family: none)	1-3
Y	JP 9-7832 A (NEC Corp.), 10 January, 1997 (10.01.97), Claims; Par. Nos. [0024] to [0028] & US 5681500 A	1-3

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
12 October, 2004 (12.10.04)

Date of mailing of the international search report  
02 November, 2004 (02.11.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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PCT/JP2004/009981

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2001/038599 A1 (Idemitsu Kosan Co., Ltd.), 31 May, 2001 (31.05.01), Claims; pages 10 to 13 & EP 1233082 A1 & US 6669830 B1	1-3
Y	JP 11-172423 A (Mitsubishi Materials Corp.), 29 June, 1999 (29.06.99), Claims (Family: none)	1-3
Y	JP 10-297962 A (Sumitomo Metal Mining Co., Ltd.), 10 November, 1998 (10.11.98), Claims (Family: none)	1-3
Y	JP 9-316630 A (Mitsubishi Materials Corp.), 09 December, 1997 (09.12.97), Claims (Family: none)	1-3
Y	JP 9-209134 A (Idemitsu Kosan Co., Ltd.), 12 August, 1997 (12.08.97), Claims; Par. Nos. [0018] to [0023], [0042]. (Family: none)	1-3

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Continuation of A. CLASSIFICATION OF SUBJECT MATTER

(International Patent Classification (IPC))

Int.Cl<sup>7</sup>

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Continuation of B. FIELDS SEARCHED

Minimum documentation searched (International Patent Classification (IPC))

Int.Cl<sup>7</sup>

Minimum documentation searched (classification system followed by classification symbols)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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